

## PROFESSIONAL SUMMARY

Results driven and motivated Software Engineer with demonstrated experience in full stack development. Productive in team and individual projects, showing expertise in design, development, and delivery of high-quality client solutions. Seeking to leverage proven leadership, achievements, and skills to ensure project success.

## TECHNICAL SKILLS

**Programming Languages** : Java, Python, C, C++, Bash Scripting, JSON  
**Databases** : MongoDB (NoSQL), Firebase (NoSQL), Oracle (SQL), Postgres (SQL)  
**Web Technologies** : HTML, CSS, JavaScript, React.js, Angular.js, Node.js, REST API  
**Performance Testing Tools** : LoadRunner, JMeter, Wireshark, Flexible IO Tester (FIO), Easy Mock (Unit Testing)  
**DevOps and Cloud Computing** : AWS, Git, Linux, Docker, Kubernetes, Temporal, JIRA  
**Frameworks and Tools** : Spring Boot, Maven, GitLab (CI/CD), Elastic Search  
**Development Tools and others** : Maven, Spring, Putty, Winscp, Tabby, Keycloak

## PROFESSIONAL EXPERIENCE

### Software Engineer, E2Open | Austin, USA

July 2023 – Present

- Successfully migrated a monolithic system to a distributed architecture with zero downtime using containerization, Kubernetes, and Helm Charts, enhancing scalability and fault tolerance
- Implemented ActiveMQ for synchronized queuing with Apache Camel on Java-based codebase
- Automated builds using Bamboo and facilitated deployment by patching the code into Docker containers and Performed multiple deployments using Jenkins
- Developed Bash scripts to facilitate automated testing with JMeter and retrieve results through SQL queries
- Worked on Catenax protocol for streamlining data integration across the value chain, utilizing EDC connector, Temporal for durable execution, and Keycloak for identity and access management
- Engaged in support activities using Elasticsearch for real-time indexing, analysis, and search, coupled with Kibana for visualization, while also employing Zabbix for comprehensive server monitoring
- Engineered a project utilizing Maven and the Spring framework to effectively implement gRPC technology, significantly enhancing performance by 70 percent through the utilization of bidirectional streaming for internal services
- Executed numerous deployments efficiently utilizing Jenkins for continuous integration
- Proficient in various protocols such as AS2 and message formats like X12 EDI, enabling seamless communication and data exchange within supply chain systems
- Utilized other services like: Bitbucket , Jfrog Artifactory, VMware, Grafana, Prometheus

### Software Development Engineer, Amazon Web Services (AWS) | Boston, USA

Aug 2021 – June 2023

- Delivered OpenZFS SAZ File Server to customers in a cloud environment on the FSx team
- Worked on the development of the highly available file system offering
  - Enabled EC2 instances to configure DRBD resources for data replication between available nodes
  - Planned, designed, and executed the development of a robust and scalable API for OpenZFS file systems using Java, leveraging modern software development practices and principles
  - Conducted Proof-of-concept (PoC) and performance testing for data synchronization between resource devices
- Improved operational posture by developing tools and procedures that limit access to host instances, resulting in an 80% reduction in the risk of unintended changes in data or system configuration
- Worked on scoping down the Service Linked Role (SLR) policies for increased security across all supported AWS regions
- Designed and implemented customer console experience for OpenZFS SAZ filesystem, and developed an internal operational website to track Volumes and Snapshots, increasing efficiency for operators and customers by 90%
- Optimized SQL queries to improve database efficiency and reduce data load time by 40%
- Performed deep packet inspection using Wireshark to assist in testing and troubleshooting of EC2 instance server
- Delegated the task of delivering performance metrics in AWS CloudWatch and scaling storage from backups to two interns, effectively mentoring and guiding them through the process
- Operated on highly visible customer-facing issues such as kernel deadlock due to stuck Transaction Groups (TXGs) in quiesce state and handle file system creates due to Amazon Elastic Block Store (EBS) insufficient capacity
- Implemented GitLab for version control and project management, facilitating streamlined coordination and organization of project tasks and code changes among team members

- Implemented quality assurance measures by utilizing EasyMock and JMockit testing frameworks, and integrated Maven to streamline the project's build process and ensure seamless execution of tests
- Utilized other AWS Services: EC2, EBS, CloudWatch, CloudFormation, CodeDeploy, SWF, S3, Secrets Manager, Lambda and VPC

**Philanthropic Software Engineer, AJ Investment | Mumbai, India**

**Jan 2018 – June 2019**

- Achieved a 75% increase in profitability by developing and expanding an investment control system with Python and storing customer data in an Oracle database, enabling data-driven decision-making
- Containerized the application using Kubernetes, resulting in improved scalability and fault tolerance and contributing to observed cost reductions
- Involved in team project for the development of pre-existing software to analyze current market investments
- Implemented Spring Boot and Spring Data JPA to efficiently persist and retrieve data in a PostgreSQL database

## EDUCATION

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**Master of Science - Computer Science | Binghamton University, State University of New York**

**Aug 2019 – May 2021**

- **Relevant Coursework:** Operating Systems, Programming Languages, Database Systems
- **Certifications:** Databases and SQL with Python

**Bachelor of Engineering - Computer Science | University of Mumbai**

**Sep 2014 – Jun 2018**

## ACADAMIC PROJECTS

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**Road Symbols Recognition [OpenCV Library, Python]**

**Jan 2021 – Mar 2021**

- Programed an application in Python to identify road symbols for maintaining safe driving conditions with the precision at 85%
- Applied OpenCV for image transformations with masking technique (bitwise operations) to focus on important part of the image
- Compared the processed image with set of road symbol images to correctly classify the label of it

**LinkedIn Clone [Reactjs, JavaScript, CSS, Firebase]**

**Nov 2020 – Dec 2020**

- Developed a LinkedIn clone using ReactJS and Firebase for real-time data storage
- Created a responsive user interface with features including user authentication, profile creation/editing, post creation/commenting, and real-time updates
- Utilized modern web development technologies to create a functional replica of LinkedIn

**Object Distance Estimation with Computer Vision [Python, OpenCV]**

**Aug 2020 – Oct 2020**

- Developed a Python script for estimating the distance from a camera to an object/marker in real-time using OpenCV
- Utilized edge detection and contour analysis techniques for accurate distance estimation
- Calibrated the camera and computed the focal length for precise distance measurements
- Implemented various image processing techniques like grayscale conversion, Gaussian blurring, and Canny edge detection for preprocessing the input image and extracting meaningful features

**Hotel Accreditation and Sentimental Analysis with Machine Learning [Python, NoSQL]**

**Dec 2019 - Mar 2020**

- Developed an application that utilized Multi-layer Perceptron, Support Vector Machine, and K-Nearest Neighbor algorithms to extract dominant aspects/labels from guest reviews stored in a NoSQL database
- Implemented GridSearchCV to optimize the parameters of the MLP algorithm, resulting in a high accuracy rate of 92%
- Conducted sentiment analysis on guest reviews using the VaderSentiment Library to gain insights into customer feedback
- Ensured improved availability and programming integrity by leveraging Google Collaboratory for development and testing purposes